

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- 70180
- (i) APPLICANT: Cupp, Mary S.
Cupp, Eddie W.
 - (ii) TITLE OF INVENTION: ANTITHROMBIN PROTEIN AND DNA SEQUENCES
 - (iii) NUMBER OF SEQUENCES: 2
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: W. Murray Spruill (Alston & Bird, LLP)
 - (B) STREET: 3605 Glenwood Ave. Suite 310
 - (C) CITY: Raleigh
 - (D) STATE: NC
 - (E) COUNTRY: USA
 - (F) ZIP: 27622
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Spruill, W. Murray
 - (B) REGISTRATION NUMBER: 32,943
 - (C) REFERENCE/DOCKET NUMBER: 5721-5
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 919 420 2202
 - (B) TELEFAX: 919 881 3175

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 532 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Simulium vittatum
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 1..294
- 18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GAG GTG GCG AAT TTG CAG GAC CAT CGA GCT GTT GAA TTT GTG TGC GAG 48
 Glu Val Ala Asn Leu Gln Asp His Arg Ala Val Glu Phe Val Cys Glu
 1 5 10 15
 AAG GAT ACT GAA AAC CAG CAT GGT TCC GAT TGC CTG CTT TCT TGT GAC 96
 Lys Asp Thr Glu Asn Gln His Gly Ser Asp Cys Leu Leu Ser Cys Asp
 20 25 30
 GTG ATG TTC TGG GAT ACC AAA AAC GAG AAC AAC AAG GAA TAT GAA GAC 144
 Val Met Phe Trp Asp Thr Lys Asn Glu Asn Asn Lys Glu Tyr Glu Asp
 35 40 45
 AGA TAC AAT TTG TGC AAA CAT TCA GCC GCT TCC GAA GAG AAC ATT TGT 192
 Arg Tyr Asn Leu Cys Lys His Ser Ala Ala Ser Glu Glu Asn Ile Cys
 50 55 60
 GAT CGC AAT GAA GAA TTG AGA GCC TGT TTC TTG CAT GAT TCG TCA TAC 240
 Asp Arg Asn Glu Glu Leu Arg Ala Cys Phe Leu His Asp Ser Ser Tyr
 65 70 75 80
 GAA GAG ACT TCG GAC GAA TAT GAA ATA ACC TAC AGC ATG GAT TCC CTG 288
 Glu Glu Thr Ser Asp Glu Tyr Glu Ile Thr Tyr Ser Met Asp Ser Leu
 85 90 95
 TGA TGA TCAAACATTG GTAATAGTTC AATTGATCGA AATATGCAGA AACCGTCCAC 344
 * *
 GGTAGTGTA TTATAACCCA TGTTGTTTCG ATTGTACTCT AATTCTACTC CGTTCATATA 404
 TGGCTGATGA GTGCCATCCA GCCAATGTGA AACAGGAGTA TAAAAAGCAC AATGTGGGTG 464
 ACAGTCCCAT TCACACAATA TGCAAATAAA ATAATGGAAA TGACCCCAAA AAAAAAAAAA 524
 AAAAAAAAAA 532

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 98 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Glu Val Ala Asn Leu Gln Asp His Arg Ala Val Glu Phe Val Cys Glu
 1 5 10 15
 Lys Asp Thr Glu Asn Gln His Gly Ser Asp Cys Leu Leu Ser Cys Asp
 20 25 30

Val	Met	Phe	Trp	Asp	Thr	Lys	Asn	Glu	Asn	Asn	Lys	Glu	Tyr	Glu	Asp
		35					40					45			
Arg	Tyr	Asn	Leu	Cys	Lys	His	Ser	Ala	Ala	Ser	Glu	Glu	Asn	Ile	Cys
	50					55					60				
Asp	Arg	Asn	Glu	Glu	Leu	Arg	Ala	Cys	Phe	Leu	His	Asp	Ser	Ser	Tyr
65					70					75					80
Glu	Glu	Thr	Ser	Asp	Glu	Tyr	Glu	Ile	Thr	Tyr	Ser	Met	Asp	Ser	Leu
				85					90					95	

* *

0903613 030698